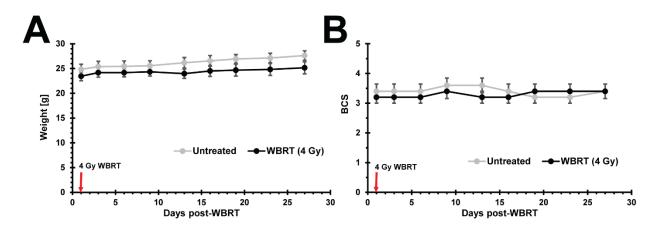
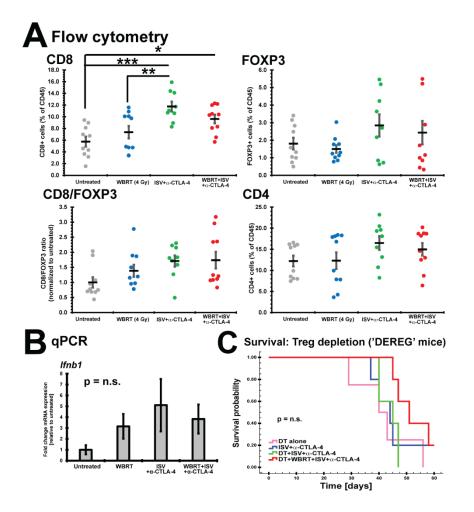
	coef	exp(coef)	se(coef)	Z	Pr(> z)
ISV(Yes)	-0.55	0.57	0.45	-1.22	0.22
WBRT(D1)	-0.82	0.43	0.43	-1.88	0.059
WBRT(D15)	-0.38	0.68	0.42	-0.89	0.37
ISV:WBRT(D1)	-0.22	0.799	0.64	-0.34	0.73
ISV:WBRT(D15)	-2.05	0.12	0.72	-2.82	0.0047**

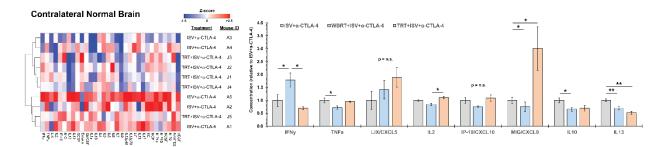
Supplementary Table S1: Results from Cox regression model (**p<0.01, which indicates that the significant effect of the interaction effect between ISV and WBRT (D15)).



Supplementary Figure S1: Mouse weight (**A**) and Body Condition Score (BCS, **B**) were monitored to determine toxicity up to 4 weeks after receiving whole brain radiotherapy (WBRT, 4 Gy×1) or sham control.



Supplementary Figure S2: (**A**) Flow cytometric analysis of B78 tumors after WBRT + ISV + anti-CTLA-4 treatment compared to untreated and single treatment controls (***p<0.001, **p<0.05, mean±S.E. with marker representing individual data points, ANOVA with post-hoc Bonferroni, n≥9, at least 2 independent animal experiments). (**B**) qRT-PCR analysis for expression of gene *Ifnb1* in melanoma brain tumors at 5 days after WBRT + ISV + anti-CTLA-4, compared to single treatments and untreated controls (p=n.s., shown as fold-change increase from untreated controls, mean ± S.E., ANOVA with post-hoc Bonferroni, n≥8 in at least 2 independent animal experiments). (**C**) Survival curve for 'DEREG' mice receiving diphtheria toxin (DT) to deplete Tregs and treatment controls (p=n.s., Kaplan-Meier, n≥5 in a single animal experiment).



Supplementary Figure S3: Heatmap of cytokines/ chemokines analyzed via multiplex immunoassay for contralateral normal brain in BrMet-bearing mice treated with TRT ⁹⁰Y-NM600 with and without ISV + anti-CTLA-4 regimen (z-scores; n=5 mice in a single animal experiment). Concentrations of cytokines/ chemokines in mice treated with TRT ⁹⁰Y-NM600 or WBRT with ISV + anti-CTLA-4 regimen, graphed relative to ISV + anti-CTLA-4 regimen alone (**p<0.01, *p<0.05, mean±S.E., ANOVA with post-hoc Bonferroni, n=5 in a single animal experiment).